APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/656,166	09/06/2000	Brad Kollmyer	PM PM271173	8916

23552 7590 11/18/2004	**EXAMINER**	
MERCHANT & GOULD PC	NALVEN, ANDREW L	
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MINNEAPOLIS, MN 55402-0903	**ART UNIT**	**PAPER NUMBER**
	2134	

DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on _6/9/2004_.

2a) ☒ This action is **FINAL**.   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
   closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) _1-76, 78-80, and 82-99_ is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) _1-76, 78-80 and 82-99_ is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on _06 September 2000_ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a) ☐ All   b) ☐ Some *   c) ☐ None of:

   1. ☐ Certified copies of the priority documents have been received.

   2. ☐ Certified copies of the priority documents have been received in Application No. _____.

   3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage
      application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)   4) ☐ Interview Summary (PTO-413)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date. _____ .
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)
      Paper No(s)/Mail Date _____ .   6) ☐ Other: _____ .

DETAILED ACTION

1.   Claims 1-76, 78-80, and 82-99 are pending.

2.   Amendment received on 9 June 2004 has been entered and considered.

3.   IDS submitted 29 July 2004 has been received and considered.

Response to Arguments

4.   Applicant's arguments with respect to claims 1-76, 78-80, and 82-99 have been

considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

5.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

6.   Claims 1-14, 16-21, 23-25, 29-30, 36, 39-40, 42, 48-50, 53-57, 61-63, 65-70, 73-

76, 78-80, 84-89 and 94-97 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Wasilewski US Patent No 5,420,866 in view of Lampson et al US Patent No.

5,161,193. Wasilewski teaches a system for providing conditional access information to

decoders in a packet based multiplexed communications system. Lampson teaches a

pipelined cryptographic processor for use in a communications network.

7.   With regards to claims 1, 25, 53, 61, 67, 69, 73 and 78-79, Wasilewski teaches a

parser configured to parse a first portion of the data from a second portion (Wasilewski,

column 9 lines 30-36, Figure 1), an encrypter configured to encrypt the first portion of

the data (Wasilewski, column 9 lines 30-36), and a combiner configured to combine the

encrypted first portion of the data with the second portion of the data wherein the

second portion of the data includes more than routing information (Wasilewski, column

9 lines 30-36, Figure 1, Figure 3B). Wasilewski fails to teach the determination as to

whether the portion of data should be encrypted based upon the format. Lampson

teaches an encrypted configured to determine if the portion of data is to be encrypted

based on the format of the portion of data (Lampson, column 14 lines 44-68). At the

time the invention was made, it would have been obvious to a person of ordinary skill in

the art to utilize Lampson's determination method with Wasilewski's conditional access

system because it offers the advantage of ensuring proper handling of several different

kinds of formatted messages (Lampson, column 3 lines 18-28).

8.   With regards to claims 2 and 88, Wasilewski as modified teaches data including

streaming data (Wasilewski, column 7 line 64 – column 8 line 6).

9.   With regards to claims 3, 30, and 42, Wasilewski as modified teaches the first

portion of the data including payload data (Wasilewski, column 9 lines 30-31).

10.   With regards to claims 4, 29, 54, 65, 68, 75, 85, and 89, Wasilewski as modified

teaches the second portion of the data containing header and control data (Wasilewski,

column 9 lines 34-36 and 51-62).

11.   With regards to claims 5 and 6, Wasilewski as modified teaches a transmitter for configured to send the combined first and second portions of the data over the network to the client (Wasilewski, Figure 2) and a receiver configured to receive the data from the server before the data is sent over the network to the client (Wasilewski, Figure 2).

12.   With regards to claim 7, Wasilewski as modified teaches a device configured to establish a data stream between the server and the client (Wasilewski, column 8 lines 22-30).

13.   With regards to claims 8, 20, 39, and 95, Wasilewski as modified teaches a key negotiator configured to negotiate an encryption key with the client (Wasilewski, column 9 lines 37-58).

14.   With regards to claims 9, 40, 56-57, 62-63, 76, 80, 94 and 96, Wasilewski as modified further teaches key negotiation and key exchange occurring during transmission of a stream (Wasilewski, column 9 lines 37-58).

15.   With regards to claim 10, Wasilewski as modified teaches the encrypter being transparent to the server (Wasilewski, column 7 line 64 – column 8 line 13).

16.   With regards to claim 11 (as best understood), Wasilewski as modified teaches key negotiation determining the correctness of a result (Wasilewski, column 13 lines 45-49, column 14 line 62 – column 15 line 6).

17.   With regards to claim 12, Wasilewski as modified teaches a decrypter configured to decrypt the first portion of the data (Wasilewski, column 13 lines 41-49 and column 14 lines 21-25).

18.   With regards to claim 13, Wasilewski as modified teaches the parser being configured to parse the data into different portions based on the media format (Wasilewski, column 13 line 50 – column 14 line 4).

19.   With regards to claim 14, Wasilewski as modified teaches the encrypter being configured to encrypt the first portion of data based on the media format (Wasilewski, column 9 lines 51-54 and column 8 lines 37-40).

20.   With regards to claim 16, Wasilewski as modified teaches an implementation on an encryption bridge (Wasilewski, Figure 2 Item 11).

21.   With regards to claim 17, Wasilewski teaches the parsing of received data into portions including a first portion and second portion (Wasilewski, column 9 lines 30-36, Figure 1), encrypting the first portion of the data (Wasilewski, column 9 lines 30-36), and sending the received data including the encrypted first portion and the second portion over the network to the client (Wasilewski, column 8 lines 17-21 and Figure 2). Wasilewski fails to teach the determination as to whether the portion of data should be encrypted based upon the format. Lampson teaches an encrypted configured to determine if the portion of data is to be encrypted based on the format of the portion of data (Lampson, column 14 lines 44-68). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Lampson's determination method with Wasilewski's conditional access system because it offers the advantage of ensuring proper handling of several different kinds of formatted messages (Lampson, column 3 lines 18-28).

22.   With regards to claims 18 and 66, Wasilewski as modified teaches the data

source being a server (Wasilewski, Figure 2).

23.   With regards to claim 19, Wasilewski as modified teaches the determination of

whether a stream is established between the server and client (Wasilewski, column 13

lines 39-49, column 14 line 62 – column 15 line 6).

24.   With regards to claim 21, Wasilewski as modified teaches received data being

streaming data (Wasilewski, column 7 line 64 – column 8 line 6) and key negotiation

carried out during the streaming session (Wasilewski, column 9 lines 37-58).

25.   With regards to claim 23, Wasilewski as modified teaches the encryption key

being negotiated with a decryption shim on the client (Wasilewski, column 9 lines 37-58,

Figure 2 Item 206, Figure 6 Items 138 and 140).

26.   With regards to claim 24, Wasilewski as modified teaches the step of determining

whether received data is streaming data (Wasilewski, column 13 lines 50-63).

27.   With regards to claims 36 and 86, Wasilewski teaches a client receiving data

over a network (Wasilewski, column 13 lines 35-39 and Figure 2), parsing the data into

portions including a first and second portion (Wasilewski, column 13 line 50 – column 14

line 9), decrypting the first portion of the data (Wasilewski, column 14 lines 21-44), and

passing the decrypted first portion of the data to a higher level of operations for play in

the client (Wasilewski, column 15 lines 6-17 and Figure 6). Wasilewski fails to teach the

determination as to whether the portion of data should be encrypted based upon the

format. Lampson teaches an encrypted configured to determine if the portion of data is

to be encrypted based on the format of the portion of data (Lampson, column 14 lines

44-68). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Lampson's determination method with Wasilewski's conditional access system because it offers the advantage of ensuring proper handling of several different kinds of formatted messages (Lampson, column 3 lines 18-28).

28.   With regards to claim 48, Wasilewski as modified teaches the payload data including multimedia data (Wasilewski, column 8 lines 52-57).

29.   With regards to claims 49 and 50, Wasilewski as modified teaches the parser being configured to parse the data into different portions based on the data protocol used to transmit (Wasilewski, column 8 lines 31-35).

30.   With regards to claim 55, Wasilewski as modified teaches streaming data included in the at least one data portion to remain unencrypted (Wasilewski, column 9 lines 19-36).

31.   With regards to claim 70, Wasilewski as modified teaches the portion of the data to be encrypted includes media data encoded in a media format (Wasilewski, column 7 line 50 – column 8 line 21) and the encoder encrypts based on the media format (Wasilewski, column 14 lines 9-13).

32.   With regards to claims 74 and 84, Wasilewski as modified teaches the downloaded data being included in the encrypted portion of the data (Wasilewski, column 8 lines 6-17).

33.   With regards to claim 87, Wasilewski as modified teaches the encrypted portion of the transmitted data including media data (Wasilewski, column 8 lines 52-57), and the

data transmitter being configured to send the decrypted media to the media player

resident on the client (Wasilewski, Figures 2 and 6).

34.   With regards to claim 97, Wasilewski teaches the determining of a plurality of

portions of data (Wasilewski, column 9 lines 30-36, Figure 1), selectively encrypting at

least one portion of the plurality of portions (Wasilewski, column 9 lines 30-36),

authenticating a client to receive the selectively encrypted portion (Wasilewski, column

14 line 62 – column 15 line 6), and transmitting the selectively encrypted portion to the

authenticated client (Wasilewski, column 8 lines 17-21 and Figure 2). Wasilewski fails

to teach the determination as to whether the portion of data should be encrypted based

upon the format. Lampson teaches an encrypted configured to determine if the portion

of data is to be encrypted based on the format of the portion of data (Lampson, column

14 lines 44-68). At the time the invention was made, it would have been obvious to a

person of ordinary skill in the art to utilize Lampson's determination method with

Wasilewski's conditional access system because it offers the advantage of ensuring

proper handling of several different kinds of formatted messages (Lampson, column 3

lines 18-28).

35.   Claims 15, 26-28, 31-35, 37-38, 43-47, 52, 64, 71-72, 82-83, 90-93, and 99 are

rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No

5,420,866 and Lampson et al US Patent No. 5,161,193, as applied to claims 1, 17, 36,

45, 61, 70, 81, 88, and 97 above, and in further view of Graunke et al US Patent No

5,991,399.

36.   With regards to claims 15 and 71, Wasilewski as modified teaches a system

where encryption algorithms may be changed (Wasilewski, column 9 lines 15-19) but

fails to teach a pluggable core encoding an encryption algorithm. Graunke teaches a

pluggable core for a decoding algorithm (Graunke, column 7 lines 40-46). At the time

the invention was made, it would have been obvious to a person of ordinary skill in the

art to utilize the ideas of Graunke's pluggable decoding core to fashion an encoding

core because it offers the advantage of helping prevent a malicious user from learning

the algorithm or key by making the key easily changeable (Graunke, column 4 line 63 –

column 5 line 51).

37.   With regards to claims 26-27, Wasilewski as modified fails to teach the

determining if a shim is present or the downloading of the shim. Graunke teaches the

determining if a shim is present or the downloading of the shim (Graunke, column 4

lines 45-50). At the time the invention was made, it would have been obvious to a

person of ordinary skill in the art to utilize Graunke's method of downloading the shim

because it offers the advantage of allowing cryptography to be dynamic by changing

keys and methods thus increasing protection of digital content (Graunke, column 2 line

59 – column 3 line 3).

38.   With regards to claim 28, Wasilewski as modified fails to teach the determining of

whether an encryption key is current. Graunke teaches a determination as to whether

the encryption key is current (Graunke, column 9 lines 7-15). At the time the invention

was made, it would have been obvious to a person of ordinary skill in the art to use

Graunke's method of checking if a key is current because it offers the advantage of

allowing a system to use dynamically generated keys that change for different content

thus increasing security and preventing a situation where a single stolen key may

unlock all available content (Graunke, column 2 lines 52-67).

39.   With regards to claims 31 and 43, Wasilewski as modified fails to teach the

determining if a packet is the last packet in the data stream. Graunke teaches the

determining if a packet is the last packet in the data stream (Graunke, column 9 lines

15-16).

40.   With regards to claims 32 and 44, Wasilewski as modified teaches the use of a

decryption shim but fails to teach receiving feedback from a decryption shim if it is

determined that the packet is not the last packet in the stream. Graunke teaches the

determination that a packet is not the last packet in the stream (Graunke, Figure 4B

'134').

41.   With regards to claims 33-35, 45-47, 52, 64, 82 and 90-93, Wasilewski as

modified teaches a streaming session, but fails to teach examining means to determine

if the client has been comprised. Graunke teaches examining means to terminate

communication if the client has been compromised (Graunke, column 8 lines 33-60). At

the time the invention was made, it would have been obvious to a person of ordinary

skill in the art to utilize Graunke's disclosed examining means because it offers the

advantage of helping prevent malicious users or code from modifying software in order

to gain unauthorized access to digital content (Graunke, column 1 lines 14-44).

42.   With regards to claims 37-38, Wasilewski as modified teaches the determining if

a stream is unencrypted and the passing of the decrypted data to a higher level of

operation (Graunke, column 4 lines 37-40). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Graunke's method of passing unencrypted data to a higher level of operation because it allows the user to view the contents of the media (Graunke, column 2 lines 38-43).

43.   With regards to claim 72, Wasilewski as modified teaches an implementation on an encryption bridge (Wasilewski, Figure 2 Item 11).

44.   With regards to claim 83, Wasilewski as modified teaches the second portion of the data containing header and control data (Wasilewski, column 9 lines 34-36 and 51-62).

45.   With regards to claim 99, Wasilewski as modified teaches the client transmitting a self-generated certificate (Graunke, column 8 lines 12-18, column 7 lines 10-15).

46.   Claims 22, 41, 51, 58-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski US Patent No 5,420,866 and Lampson et al US Patent No. 5,161,193, as applied to claims 20, 39, and 57 above, and in further view of Graunke et al US Patent No 5,991,399 and Dorfman et al US Patent No 6,449,651.

47.   With regards to claims 22, 41 and 58, Wasilewski as modified above fails to teach the examining of the client during the streaming session and terminating the streaming session if the encryption key is invalid. Graunke teaches examining means to terminate communication if the client has been compromised (Graunke, column 8 lines 33-60) and Dorfman teaches a determination if a key is invalid (Dorfman, column 7 line 53 – column 8 line 11). At the time the invention was made, it would have been

obvious to a person of ordinary skill in the art to utilize Graunke's method of termination

if a client is compromised and Dorfman's method of determining if a key is invalid

because Graunke offers advantage of helping prevent malicious users or code from

modifying software in order to gain unauthorized access to digital content (Graunke,

column 1 lines 14-44), while Dorfman offers the advantages of ensuring that a key is not

used beyond the expiration date (Dorfman, column 2 lines 55-65) and increasing

security by ensuring a key has not been tampered with (Dorfman, column 3 lines 1-42).

48.   With regards to claim 51, Wasilewski as modified teaches a feedback signal to

stop transmission (Graunke, column 8 lines 57-60).

49.   With regards to claim 59, Wasilewski as modified teaches the data source being

a server (Wasilewski, column 8 lines 22-30), examining carried out on an encryption

bridge between the server and the network (Wasilewski, Figure 2 Item 11), so

encrypting and combining is transparent to the server (Wasilewski, column 7 line 64 –

column 8 line 13).

50.   With regards to claim 60, Wasilewski as modified teaches key negotiating and

exchanging and the decryption using the key is carried out using a shim on the client

(Wasilewski, column 9 lines 37-58, Figure 2 Item 206, Figure 6 Items 138 and 140) and

the shim is configured so that negotiating and exchanging is transparent to the client

(Wasilewski, Figure 2 Item 206).

51.   Claim 98 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Wasilewski US Patent No 5,420,866 and Lampson et al US Patent No. 5,161,193, as

applied to claim 97 above, and in further view of Fawcett et al US Patent No 5,678,002.

52.   With regards to claim 98, Wasilewski as modified teaches the accepting of a

shim from a server that is selectively encrypting a portion of data (Wasilewski, column 9

lines 30-36, column 9 lines 37-58, Figure 2 Item 206, Figure 6 Items 138 and 140), but

fails to teach a confirmation sent back from the shim. Fawcett teaches a confirmation

sent back from a software module after accepting the module (Fawcett, column 8 lines

1-13). At the time the invention was made, it would have been obvious to a person of

ordinary skill in the art to utilize Fawcett's method of sending confirmations because it

offers the advantage of informing the server that a successful download is complete so

further processing may then take place (Fawcett, column 8 lines 7-13).

Conclusion

53.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

        A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

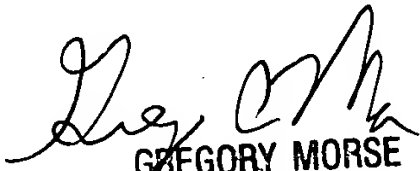mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

54.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andrew L Nalven whose telephone number is 571 272

3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate

Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory Morse can be reached on 571 272 3838. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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GREGORY MORSE
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